



AIPH MEETING

20-23 March 2018
The Hotel Windsor,
Melbourne, Australia



AIPH



Nursery & Garden Industry
Australia

**Hort
Innovation**

USING GREEN INFRASTRUCTURE TO IMPROVE SEOUL CITY

In Case of Gyeonguiseon Linear Forest Park

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Background & Objectives

- Creating linear park using above-ground section as a part of Gyeonguiseon renovation project
- Park plan considering the connection of Yongsan Park, Han River Park, and World Cup Park
- Ensuring the connection of park green resources through the long-term development plan

Scope

- Location : Gyeonguiseon Above Ground (Yongsan Community Center ~ Gaja Station)
- Length : 6.19 km / Area : 140,170 m²
- Master Plan : **Sung-Kyun Kim**
- Design : 2008~2015
- Construction: 2010-2016
- Contents :
 - Development Survey
 - Case Study
 - Expansion of Public Open Space
 - Direction of Design (Concept)
 - Plan for the Park



Direction

- **Greenway** connecting surrounding parks and green spaces
- **Multi-purpose linear park** for nearby communities
- Park **encouraging community participation** showing history and culture
- Creating **sustainable parks** for current and future generation



Plan



There was no road in the beginning,
The first one to go,
The walking people increases,
..... That became the road.
(Road)

- Meaningful road reflecting characteristics of a linear space
- Living spaces for playground, festivals, and communication

Connecting. . . Connecting spaces

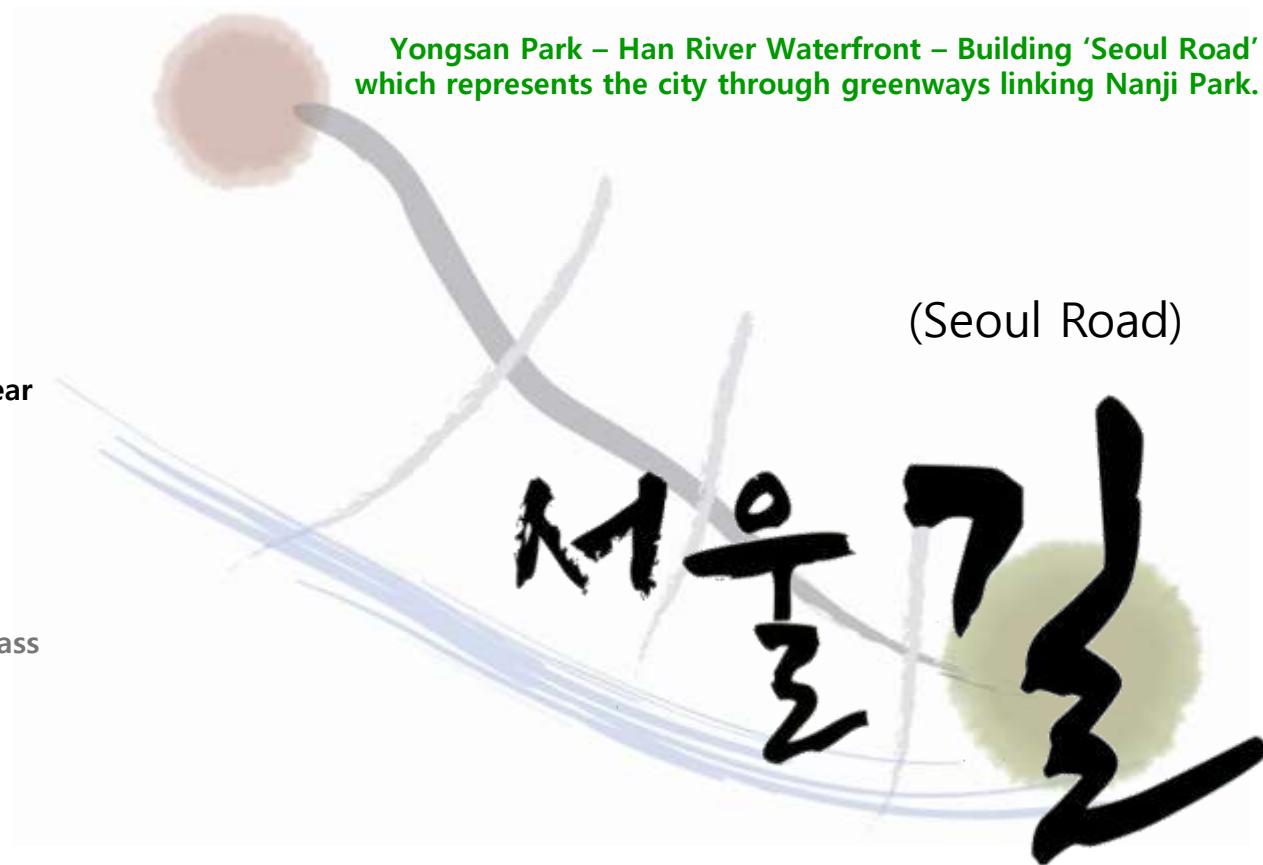
Space on the earth for human, animals or cars to pass
[Trails, alleys, dirt roads, etc]

Holding . . . Holding values

Process of individual development and social and historical development over time
[The way of royalty, the way of modernization, etc]

Gathering . . . Communication & network

Center of the gathering for people



*"The road is a place that expresses the joys and sorrows of our lives
the bridge of the past, present, and future, here and there, and me and others,*

The road is starting point, medium, terminal "

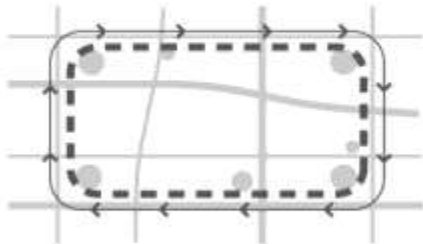
Conveyor - Connecting environmental, social, economical elements

- Creating living city (City revitalization through the connection of culture, history/green spaces)
- Difference with High Line Park, New York and Promenade Plantee, Paris.

컨베이어 파크 시스템(Green Conveyor System)

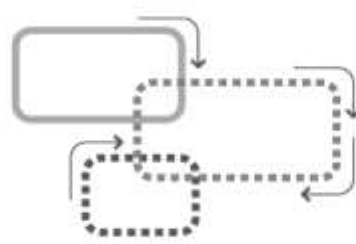
도시를 움직이는 엔진(Park, City Operator)

컨베이어 파크 벨트



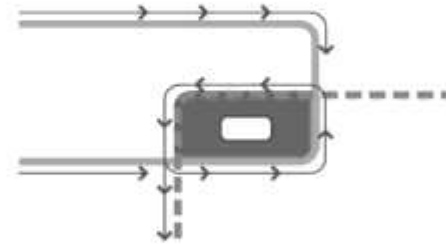
선적 네트워크가 아닌
흐름을 형성하는 체계

벨트의 조합



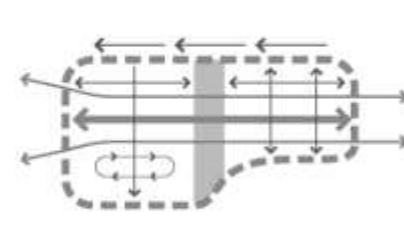
테마, 프로그램, 기능별
다양한 벨트의 조직

융합 거점



벨트가 만나는 교점
열린 공간구성을 통해
공간의 진화 유도

시스템

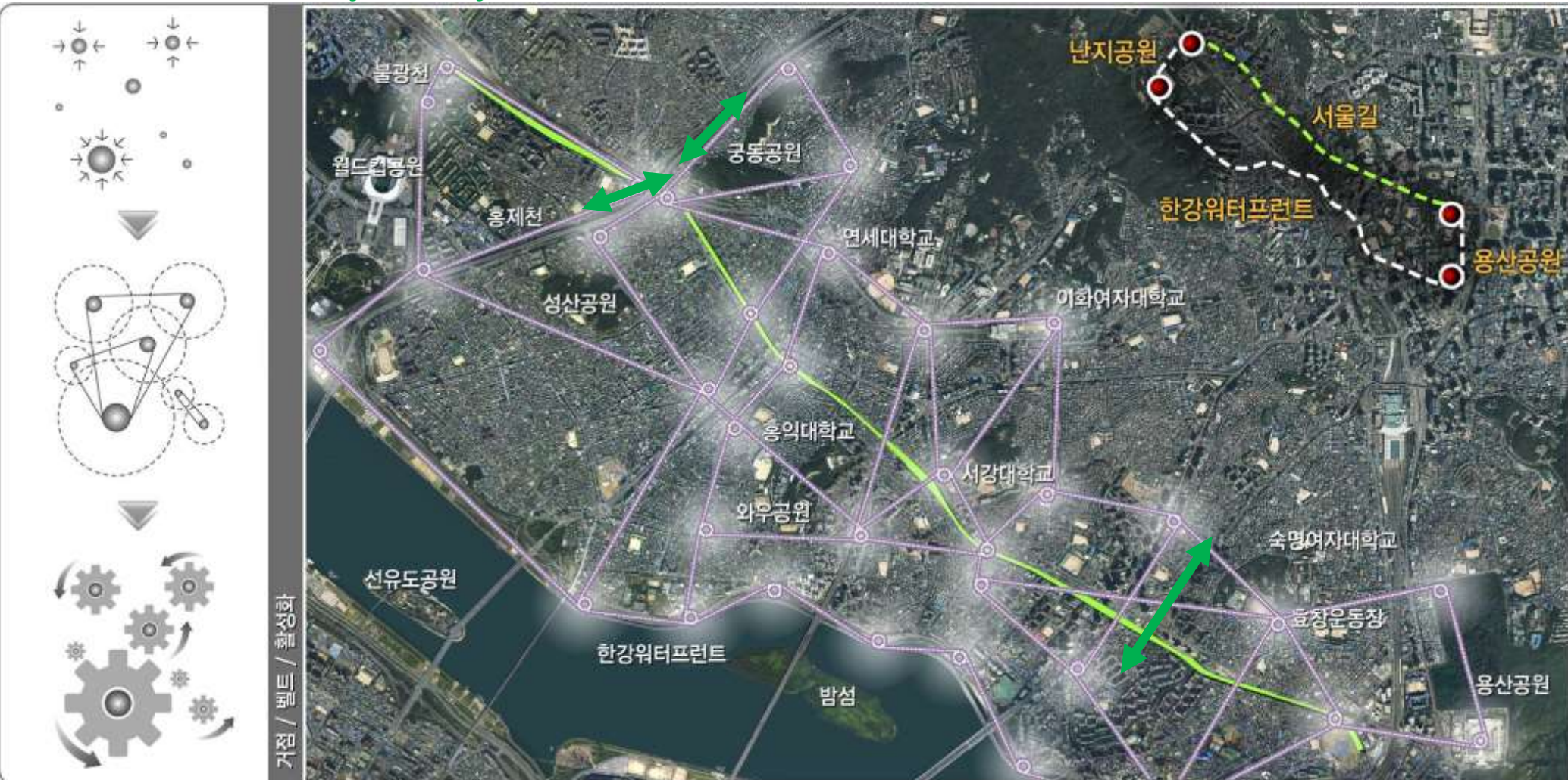


도시의 혈관을 이루고,
도시생활을 만드는
공원, 녹지 체계



Green Conveyor – Environmental Sustainability

- “Green Conveyor” in the design concept connects local green space and parks.
- Transforming as an ecological space incorporating artificial streams that use underground water from nearby subway.



03 Concept & Development

Social-Economical Conveyor – Social-Economical Sustainability

- Connecting **local histories**
- Providing **community gathering space**
- Transforming from the edge to **the center of community**
- Increasing **property values** -> more social tax, better maintenance



Zones

ZONE I (Yong Community Center
~Daeheungro Rd. 2.74km)

Existing central business district (CBD)
Modern historical elements interspersed

→ **Road of History (Cultural /
Natural)**

ZONE II (Daeheungro Rd.~Yanghwaro
Rd. 1.87km)

University culture zone : Seogang Univ.,
Hongik Univ. and Yonsei Univ.

→ **Road of Culture / Art**

ZONE III (Yanghwaro Rd.~Hongjecheon
Stream 1.33km)

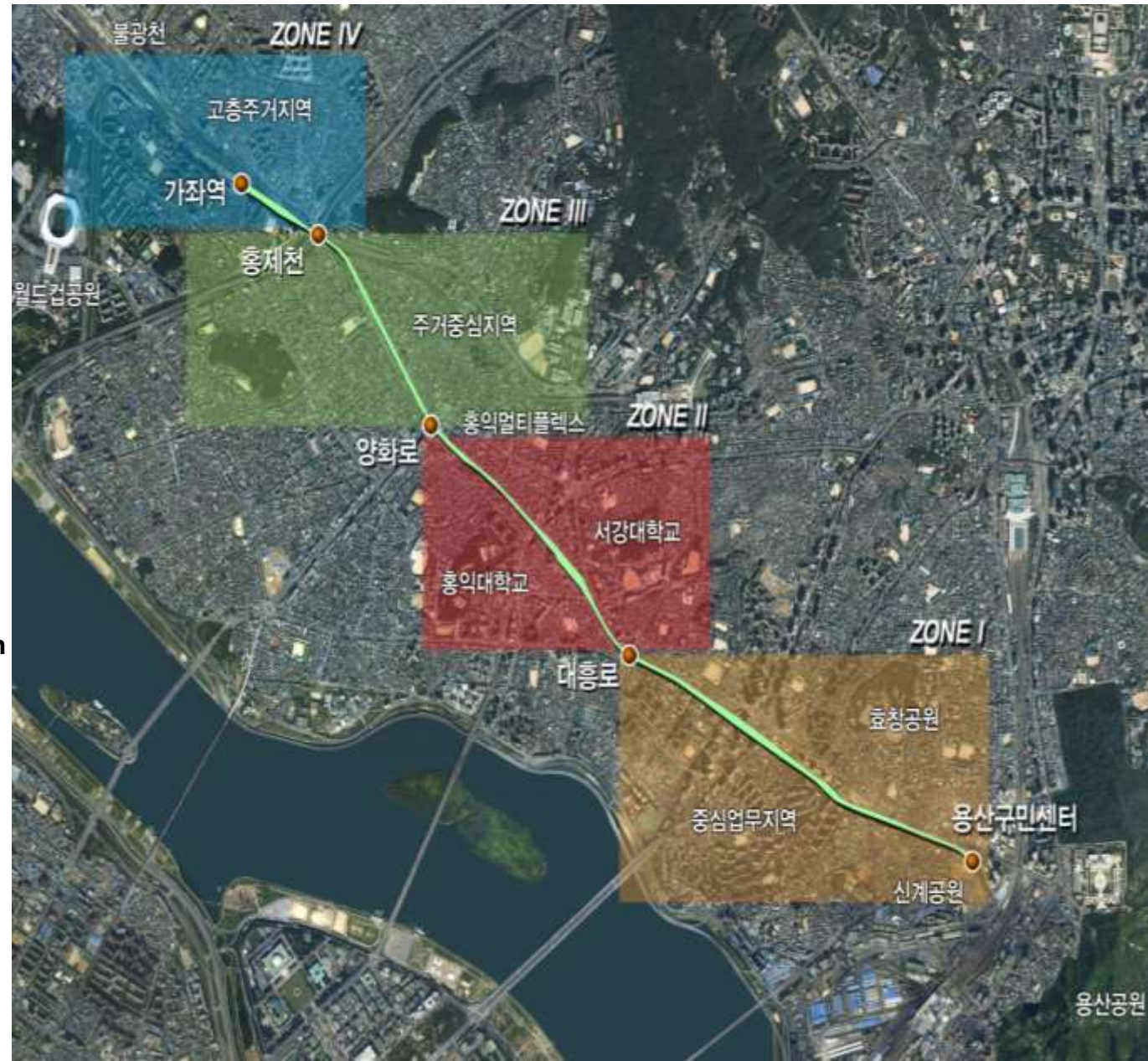
Neighborhood park, Hongjecheon Stream,
and Residential zone

→ **Road of Community / Relaxation**

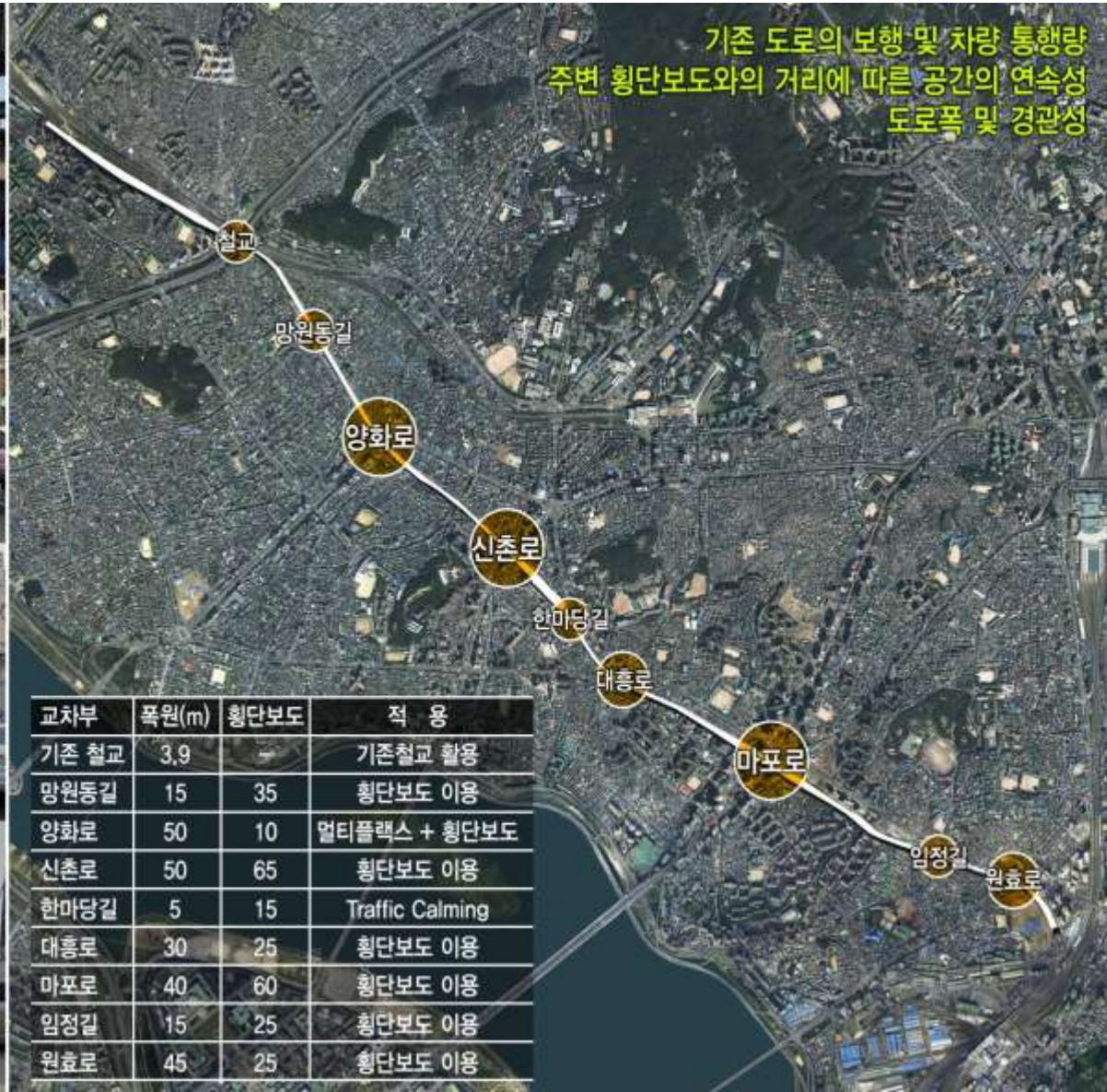
ZONE IV (Hongjecheon Stream~Gaja
Station 0.25km)

Eco-triangle

→ **Road of Nature / Ecology**



Pedestrian & Bicycle Network Plan



Gyeonguisen Linear Park Plan

GREEN CONVEYOR PARK

Design of 4 Zones

- Road of History (Cultural/ Natural)
[Yongsan Community Center~Daeheungro Rd.]
- Road of Culture / Art
[Daeheungro Rd.~Yanghwaro Rd.]
- Road of Community / Relaxation
[Yanghwaro Rd. ~Hongjaecheon Stream]
- Road of Nature / Ecology
[Hongjaecheon Stream~Gaja Station]

05 Road of History Bird's-eye View (Yongsan Community Center~Daeheungro Ri)



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05 Road of History (Cultural) (Yongsan Community Center~Gongdeok Brownstone)

● Modern History of the Area

- Symbolic space of railroad park, trails, etc.
- Park facility of local history – Dohwa-won
- Transition zone as forest trail to new world



05 Road of History (Cultural) (Yongsan Community Center~Gongdeok Brownstone)



05 Road of History (Cultural) (Yongsan Community Center~Gongdeok Brownstone)



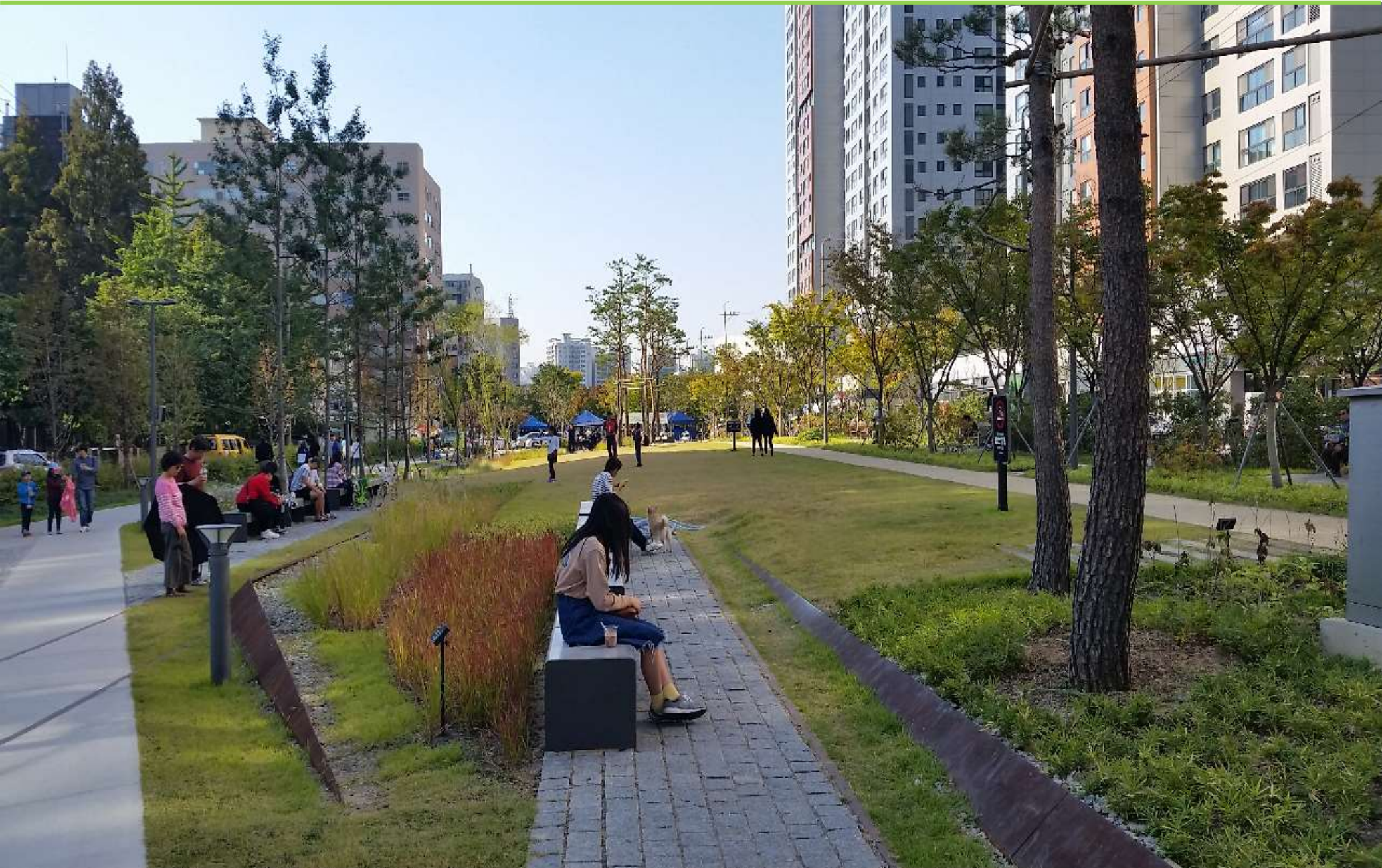


05 Road of History (Cultural)

(Gongdeok Brownstone ~ Daeheungro Rd.)



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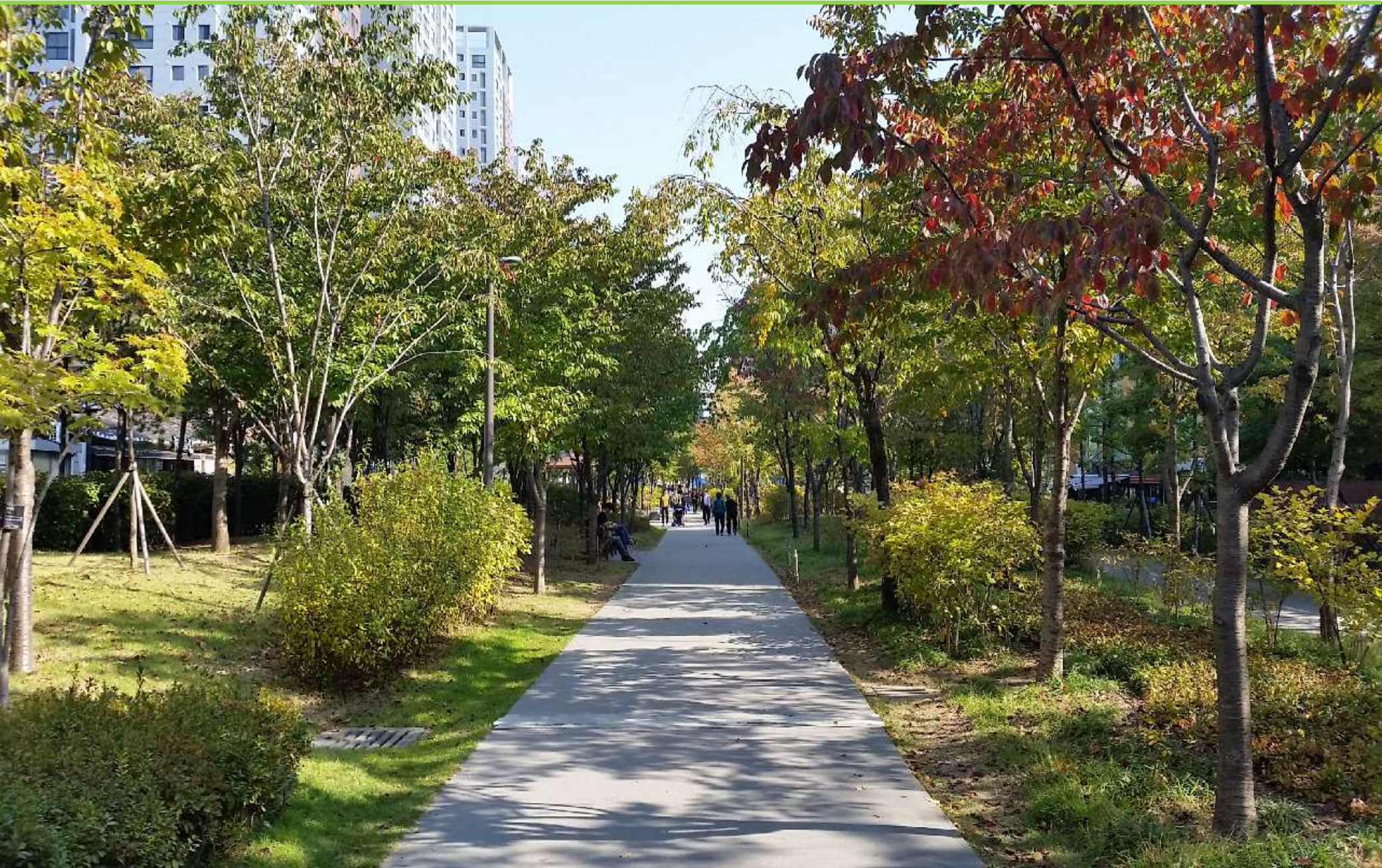


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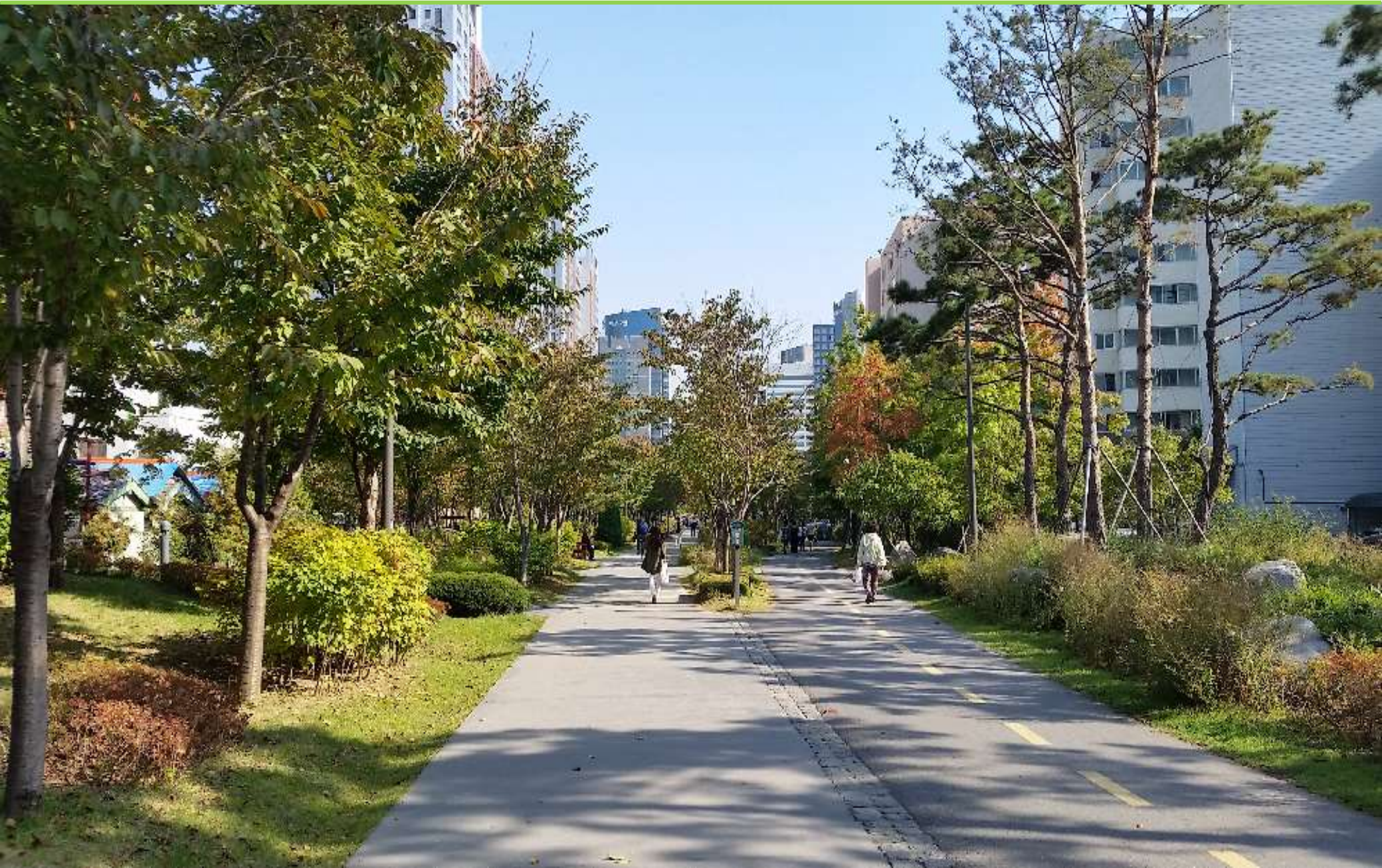
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05 Road of Culture/Art Bird's-eye View (Daeheungro Rd.~Yanghwaro Rd.)



05 Road of Culture/Art 1 (Daeheungro Rd.~Sinchonro Rd.)

Open space around Sogang Univ.

Yongsan Historical Museum plan

Cafeteria of railway platform design

Railroad trail to the museum

Yongsan Line Museum, Deck Rest area, Display Wall, Railway Trail, Lawn Plaza, etc.

Shinchon Rd.

Cafeteria

Yongsan Line Museum

Seogang Station.

Display Wall

Gaja Station

Hongjecheon Stream

Yanghwa Rd.

Daeheungro Rd.

ZONE IV

ZONE III

ZONE II

ZONE I

Entrance

0 30 50 100m

Seogang Univ.

Lawn Plaza

Railroad Trail

Daeheung Rd.

Constructed in 2010



05 Road of Culture / Art 2 (Sinchonro Rd.~Yanghwaro Rd.)



- Cultural space around Hongik Univ.
- Cultural plaza connected with pedestrian friendly st.
- Art & book street with 1pyeong gallery
- Communication and meeting space for various cultural groups

Rainbow Plaza, 1pyeong Gallery, Forest Library, Display Wall, Mound, etc.



05 Road of Culture / Art 2 (Sinchonro Rd.~Yanghwaro Rd.)







05 Road of Relaxation / Community Bird's-eye View

(Yanghwaro Rd.~Hongjaecheon Stream)



05 Road of Relaxation (Yanghwa Rd.~Aramgil St.)

Commercial Community

Plaza plan using traffic calming technics for pedestrian safety

Multi-use green space, 1 pyeong garden, Railroad rest area, etc.





05 Road of Relaxation (Yanghwa Rd.~Aram Gil)



05 Road of Relaxation (Yanghwa Rd.~Aramgil St.)



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05 Road of Relaxation (Yanghwaro Rd.~Aramgil St.)



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05 Road of Relaxation (Yanghwaro Rd.~Aramgil St.)



05 Road of Community (Aramgil St.~Hongjecheon Stream)

- **Greenway for Community Participation**

- 1 Pyeong garden plan for easy access
- Linear space plan for health theme
- Planting buffer for Gyeonguiseon line
- Use of existing Ginkgo trees



05 Road of Community (Aramgil St.~Hongjecheon Stream)



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도시



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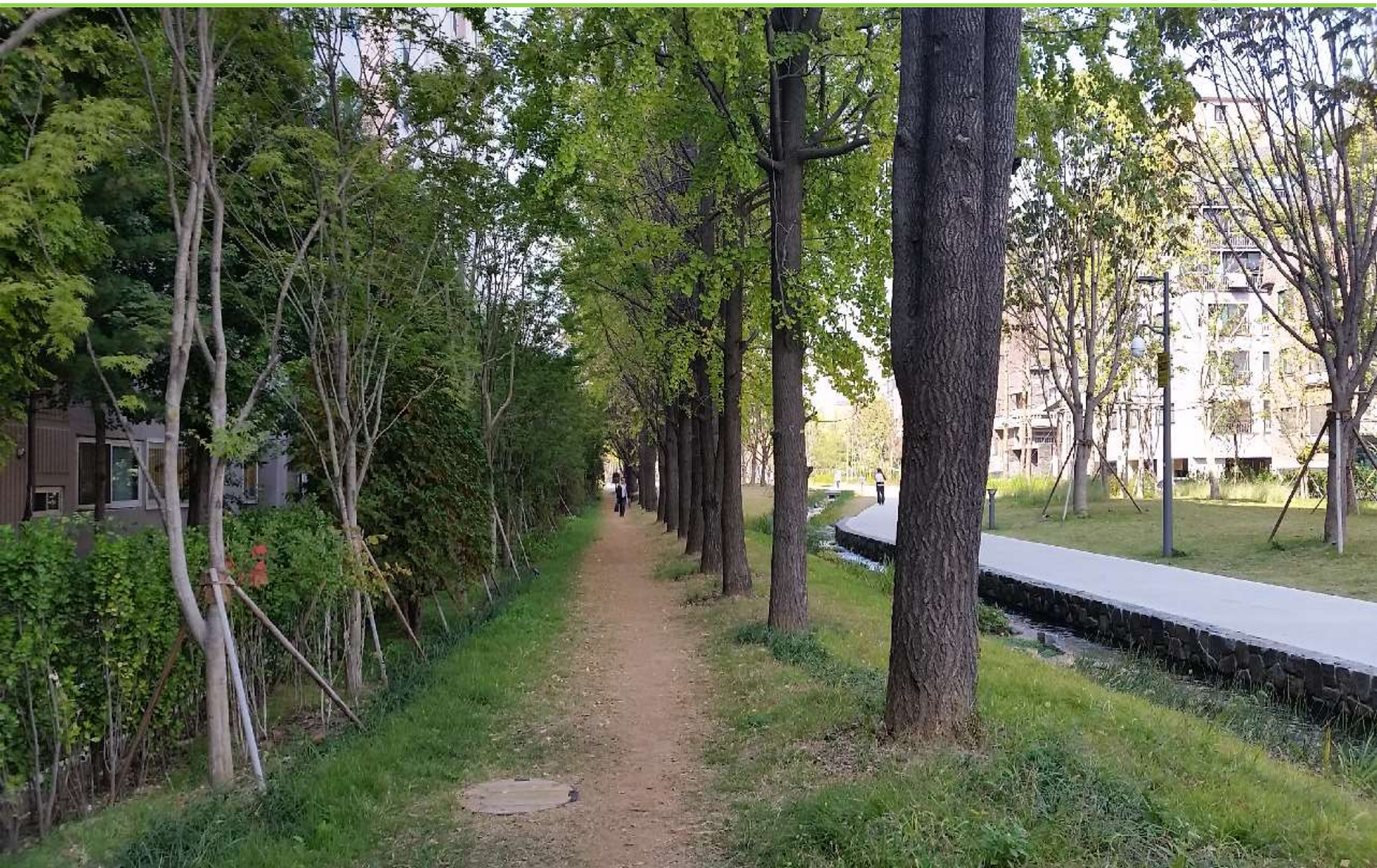
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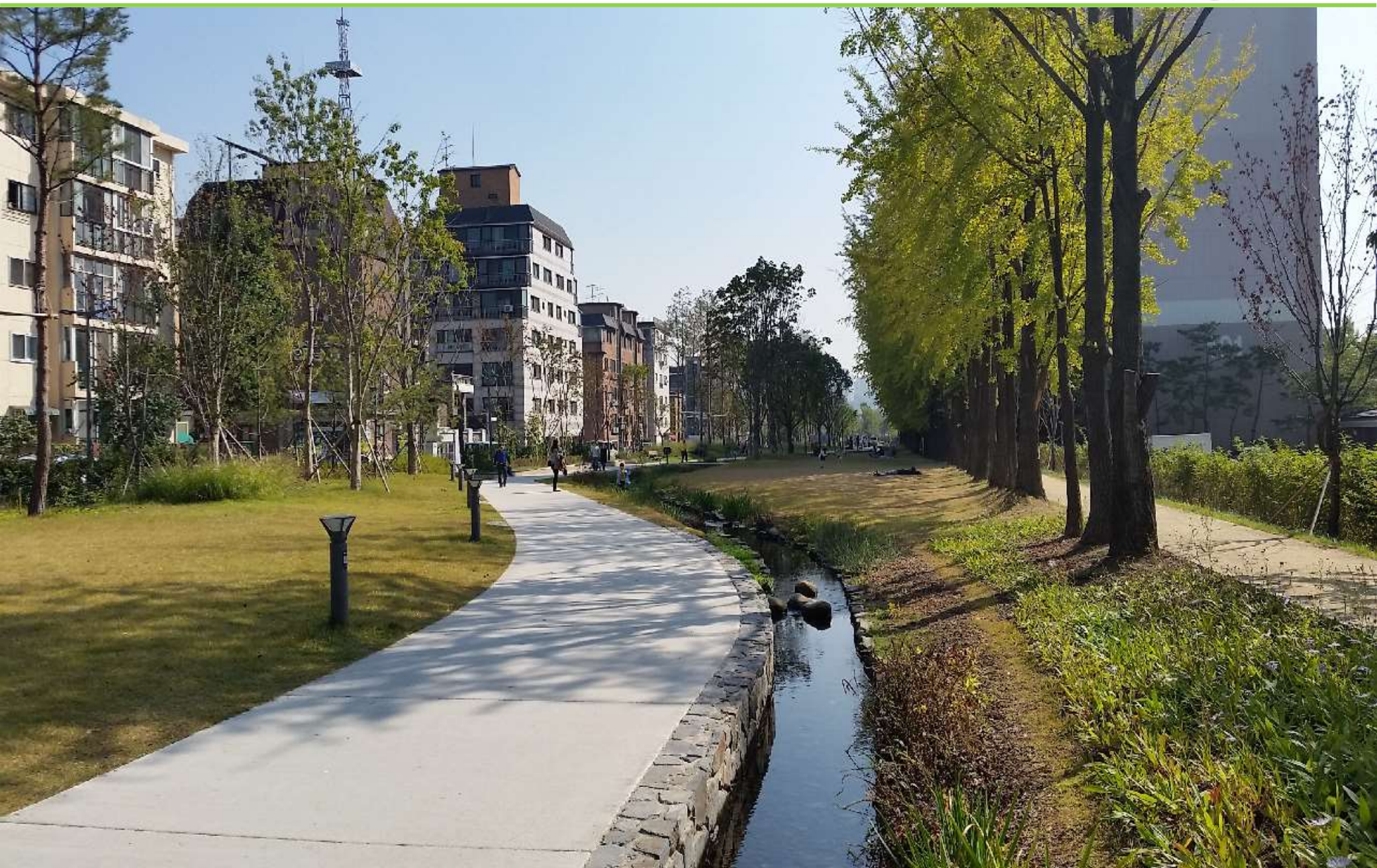
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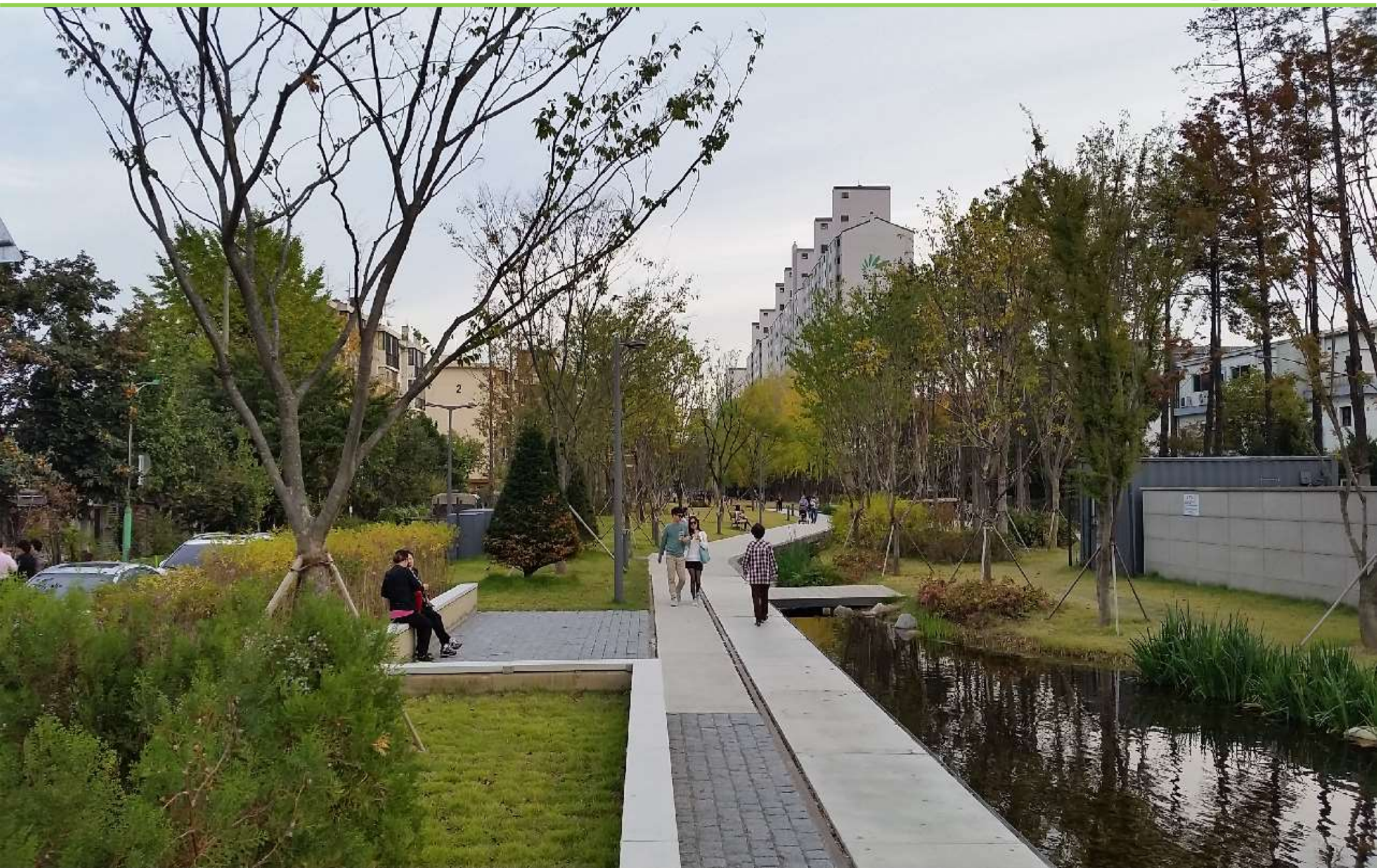
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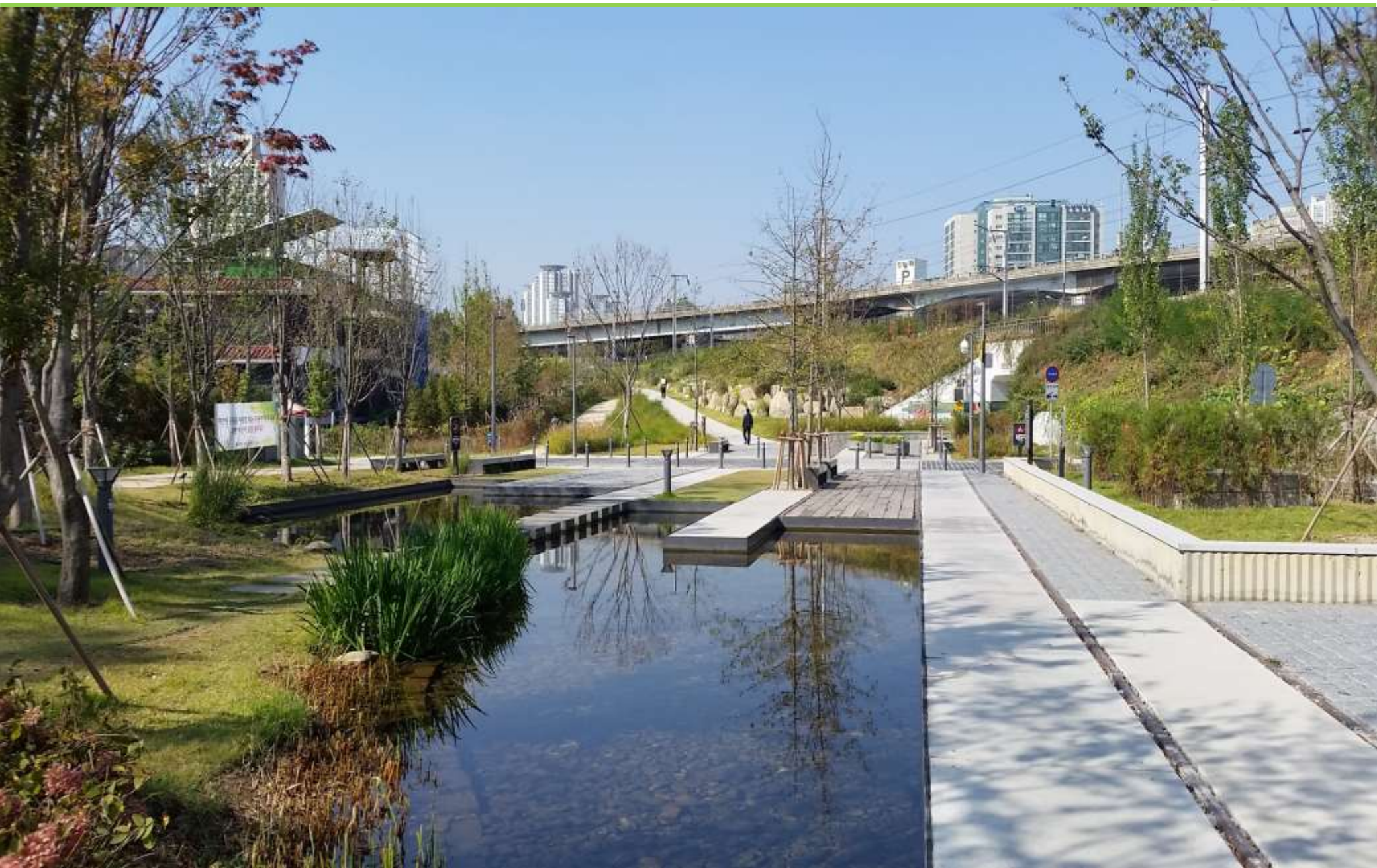


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도시



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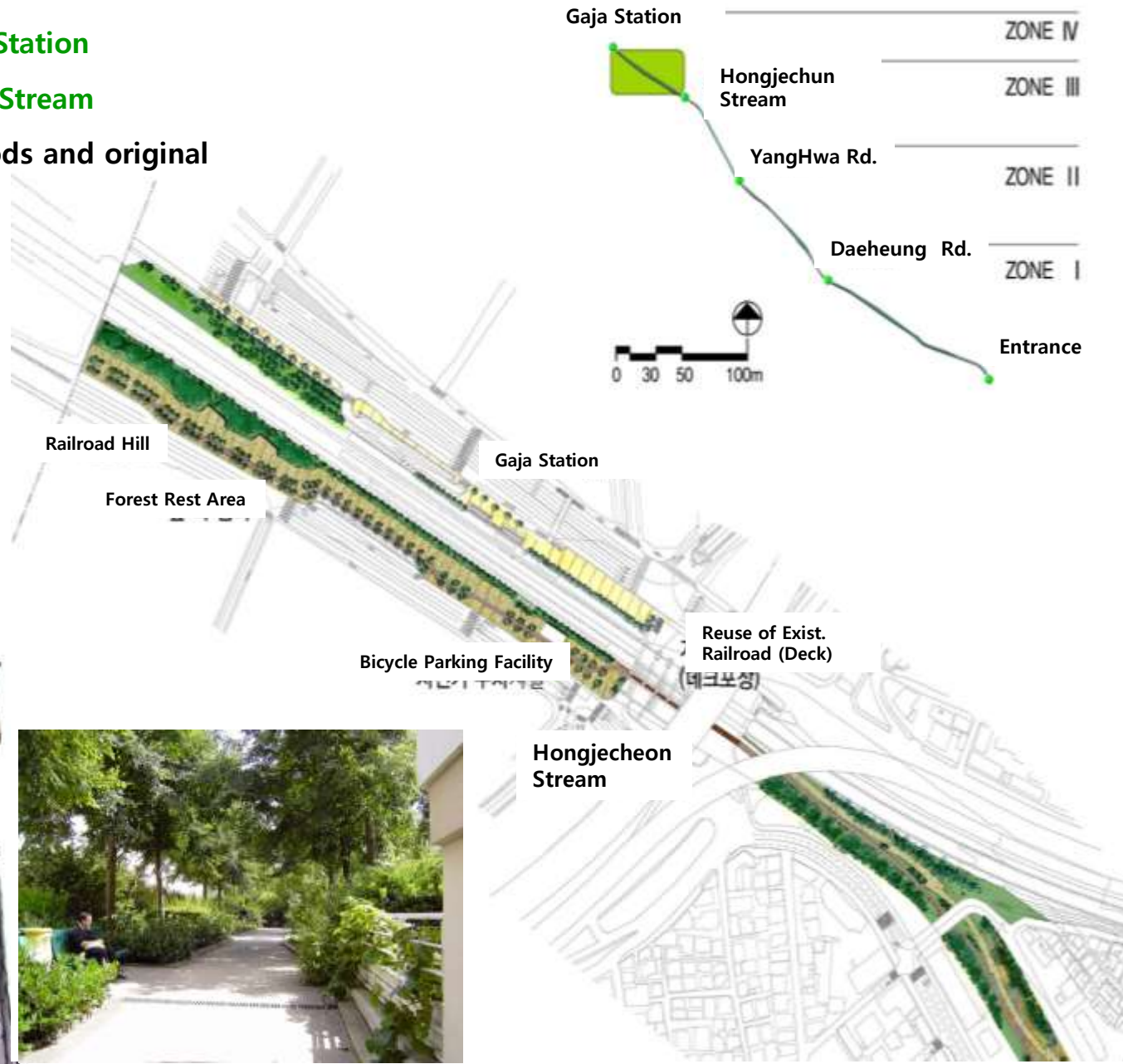
05 Road of Nature (Hongjecheon Stream~Gaja Station)

Central space of Hongjae Chun & Gaja Station

Bicycle parking facility of Hongjecheon Stream

The creation of forest trail through woods and original Gyeongui line

Future plan is needed to connect to Bulgwangcheon Stream



Hongjecheon Stream

05 Road of Nature Bird's-eye View (Hongjecheon Stream~ Gaja Station)



- Hongjecheon Stream



Gyeongui Linear Park Plan
GREEN CONVEYOR PARK

Creating Urban Infrastructure

- Ecological Infrastructure
- Social Infrastructure
- Historical and Cultural Infrastructure

- “Green Conveyor” in the design concept connects local green space and parks.
 - > Storm water management, less heat stress, more biodiversity, food production, better air quality, clean water
 - > Visual enhancement, increased quality of life,
- Transforming as an ecological space incorporating artificial streams that use underground water from nearby subway.
- Existing plants are preserved, and major native species founded from nearby mountains to rivers in Seoul are selected.
- This project will increase carbon sequestration, improve air quality, create wind corridor, improve human health, restore wildlife habitat, and also increase bio-diversity



- **“Social Conveyor”** in the design concept **connects social activities** and forms social infrastructure.
- **Bicycle and jogging tracks** are the bone structure of the Gyeonguiseon Linear Park.
- **Social and community activities** occur along this linear structure.
- Each of the sectors has its own **“Council of Gyeonguiseon Forest Park Keepers,”** composed of local residents, merchants, artists and professionals. The councils play an important role in making decisions regarding the modification and rational changes of parks.
- The park has increased land values and thus economic development is supported.
- Thus, the linear park is sustainable economically.



06 Historical / Cultural Infrastructure

- “**Historical and Cultural Conveyor**” in the design concept **interconnects local history and culture**, and supports formation of **historical and cultural infrastructure**.
- Zone I is designed to provide a base for visiting modern history sites.
- Zone II is a new center for **art and “Indie-culture”** which connects to universities and cultural areas existing nearby.
- The Linear Park will foster a vast amount of **community activities**, including reading, crafts, arts, workshops, programs for children, outdoor library, and book exhibitions, etc.
- The park plays an important role in **historical and cultural infrastructure** in the district.



Thank You!



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